Configuring System Software for

Windows NT 4.0

Installing the Software 52

Installing the Utility Tool Programs 52

Configuring operation environment for utility tool programs 53

Installing the Printer Driver 54

Additional System Configuration for “TCP/IP via LPR Port” 60

Installing the ATM (Adobe Type Manager) 64

Installing PS Screen Fonts 66

Installing TrueType Screen Fonts 66

Customizing the Printer Driver 67

[Ports] Tab 70

[Scheduling] Tab 72

[Device Settings] Tab 74

Creating a PS File 77

Installing the Utility Tool Programs

To make the SC7700-dedicated utility tool programs, such as RISO Console and RISO Scan, available, you are required to install them in your personal computers from the dedicated software CD-ROM disk. The below-listed utility tool programs will be installed at a time by using the dedicated installer.

- RISO Console (User or Administrator version)
- RISO Scan
- TWAIN Driver

NOTE The PPD files will be installed as well.

Go to page 22 for the stepped descriptions about the installation procedure of the utility tool programs.

Configuring operation environment for utility tool programs

All SC7700-RISOGRAPH printing stations that are connected to your personal computers are required to have unique identity names, called Location ID, to operate for the utility tool programs installed here. One of the utility tool programs, RISO Console, provides the tool for location ID assignment. After you install the SC7700-dedicated utility tool programs, always give desired Location IDs to the connected SC7700-RISOGRAPH printing stations and configure other operation environments for the utility tool programs.

Go to page 24 for the stepped descriptions about the configuration procedure of the operation environment for utility tool programs.

Installing the Printer Driver

You are required to install, in the respective personal computers, the dedicated printer driver program that enables the printout of data on the RISOGRAPH.

When the SC7700 is connected to your computer through local printer port or "NetBIOS over TCP/IP" is used as a protocol in your SC7700 network configuration, you have only to install the dedicated printer driver in your computers, following the procedure described below. When "TCP/IP via LPR Port" is required as a protocol in your network environment, however, an additional system configuration will be required, which is described under the title "Additional System Configuration for "TCP/IP via LPR Port"" in this section as well.

Refer to the WindowsNT4.0 manuals for more instructions on how to install the printer driver.

IMPORTANT

- **Make sure the SC7700 is turned on and connected to the personal computer in which the printer driver is to be installed.**
- **Be sure to read the [Readme] file in the [AdobePS] folder before installing the SC7700 printer driver in the personal computers because it contains up-to-date information concerning problems and precautions in installation and operation.**

NOTE The Administrator's privilege is required to install the printer driver in the WindowsNT PCs in the network.

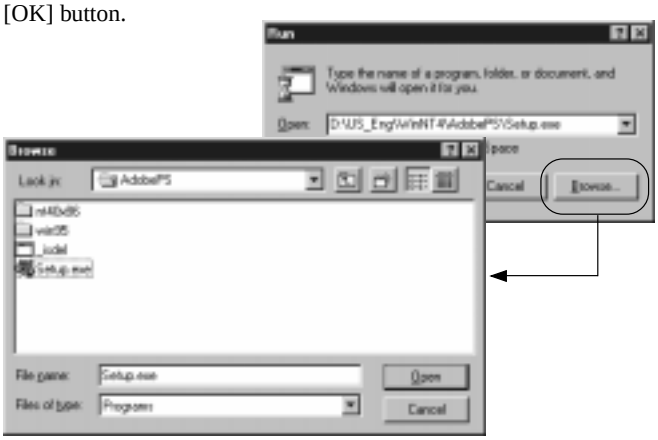
"NetBIOS over TCP/IP" and "TCP/IP via LPR Port"

The SC7700 can communicate with your computers in both network protocols, "NetBIOS over TCP/IP" and "TCP/IP via LPR Port". "NetBIOS over TCP/IP" can be used as a protocol in both types of network configurations, "pier-to-pier" and "client-server". "TCP/IP via LPR Port", on the other hand, can be used mainly in the "client-server" network configuration.

1 Turn on the personal computer and start Windows.

2 Start the printer driver installer program.

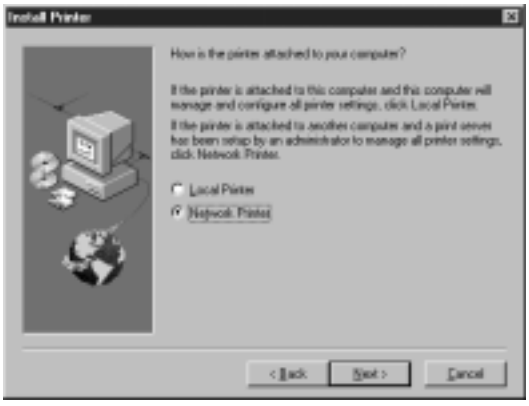
Insert the dedicated software CD-ROM disk in the CD-ROM drive and click on [Run] in the [Start] menu. The [Run] dialog box then appears. Specify the CD-ROM drive and select the “setup.exe” file in the [AdobePS] folder in your preferred language’s [WinNT4], referring to the [Browse] box. Confirm that the “setup.exe” file in your preferred language has been selected and click on the [OK] button.



3 Select the printer’s location.

Proceed to the [Install Printer] dialog box through several screens and select “Local Printer” or “Network Printer”. When the SC7700 is directly connected to your computer with a parallel printer cable, or you intend to configure your computer as a print server, select “Local Printer”. When a crossover Ethernet cable is used to connect the SC7700 directly to your computer, or you intend to configure your computer as a pier terminal or a client PC, on the other hand, select “Network Printer”. Then click on the [Next] button.

NOTE It is assumed here that “TCP/IP via LPR Port” is used as network protocol in the print server. If you intend to configure the print server with “NetBIOS over TCP/IP”, therefore, refer to the WindowsNT4.0 manuals.

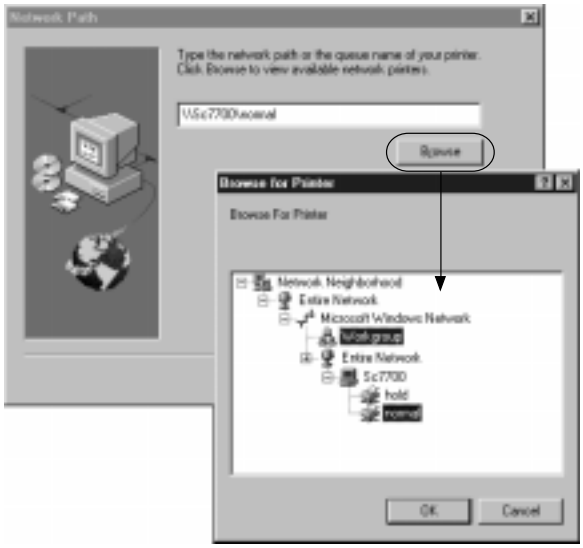

Install Printer
How is the printer attached to your computer?
If the printer is attached to this computer and this computer will manage and configure all printer settings, click Local Printer.
If the printer is attached to another computer and a print server has been setup by an administrator to manage all printer settings, click Network Printer.
Local Printer
Network Printer
< Back
Next >
Cancel

4 Specify the network path.

If you select “Local Printer” in the previous step, skip this step.

If you select “Network Printer” there, on the other hand, specify the network path in the [Network Path] dialog box by selecting the SC7700 which is connected via the network port in the [Browse for Printer] dialog box. Confirm that the selected network path is correct and click on the [Next] button twice.

NOTE Two different paths, “.....SC7700**normal**” and “.....SC7700**hold**”, are available for each SC7700 unit. To add the “Hold Queue” option to the printer driver program, select “.....SC7700\hold”.



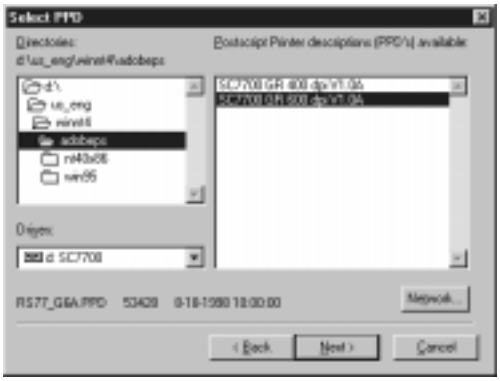
“Normal Queue” and “Hold Queue”

When using the SC7700 through the network port of your computer, document data sent from your computer is temporarily stored in a location, called “Normal Queue”, in the hard disk of the SC7700, and will be printed out later after all proceeding ones stored there and then deleted after it is printed.

When the document data is optionally stored in another location, called “Hold Queue”, in the SC7700 hard disk, on the other hand, it will not be printed out unless you give an additional print order later. The document data stored in the “Hold Queue” remains there for repeated output even after it is printed out.

5 Select the PPD file.

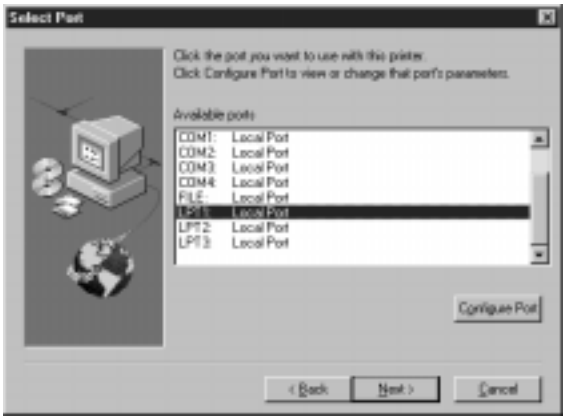
Select the PPD file which corresponds to the connected RISOGRAPH in the model name and resolution from the displayed list and click on the [Next] button.



6 Select the printer's port.

If you select "Network Printer" in Step 3, skip this step.

If you select "Local Printer", there, on the other hand, select "LPT1" as the printer port and click on the [Next] button.



7 Open the printer port to client PCs in the network.

If you select “Network Printer” in Step 3, skip this step.

If you select “Local Printer” there, on the other hand, you have a choice in this dialog box. If you configure your computer as a print server, select “Shared” and enter a desired “Share Name” in the corresponding box. If not, select “Not Shared”. Then click on the [Next] button.

NOTE It is recommended to use 12 or less characters for the Share name. If the Share name has more than 12 characters, a problem may occur in configuring client PCs.

Get Shared Information
Will this printer be shared with other network users?
Shared
Not shared
If you choose Shared, give this printer a share name.
Share Name:
Select the operating system of all computers that will be printing to this printer.
Windows 95
< Back
Next >
Cancel

8 Check the name of the added printer and specify it as [Default Printer].

Confirm that the correct network path or PPD file name appears in the [Printer Name] box in the [Get Setup Information] dialog box and select [Yes] in the section below to set the SC7700 as the default printer. Then click on the [Next] button.

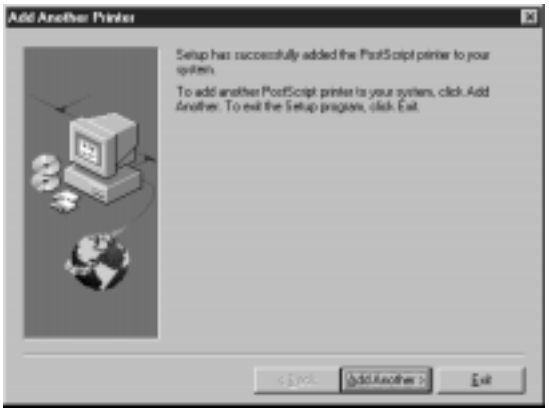
NOTE If you want to print out a test page after the installation of the printer driver, select [Yes] in the bottom section. Then turn on the SC7700 and your RISOGRAPH and load paper before clicking on the [Next] button in this dialog box.

9 End the printer driver's installation.

If the printer driver is installed properly, the [SC7700 Properties] dialog box appears with the [SC7700] icon in the [Printers] folder. Click on the [OK] button and then the [Exit] button to finish the printer driver's installation. If you want to install another printer driver, click on the [Add another] button instead of the [Exit] button. In this case, the dialog box shown in Step 3 will appear again.

Remove the CD-ROM disk from the CD-ROM drive after you finish the printer driver's installation. (Keep the CD-ROM disk in a safe location.)

NOTE You can change the initial settings of the printer driver in the [SC7700 .....Properties] dialog box. (See page 67.)


Add Another Printer
To add another PostScript printer to your system, click Add Another. To exit the Setup program, click Exit.
Exit

Additional System Configuration for "TCP/IP via LPR Port"

If you use "TCP/IP via LPR Port" as a network protocol for your SC7700-RISOGRAPH printing station, the below-described additional system configuration will be required for a print server PC after installing the printer driver in it.

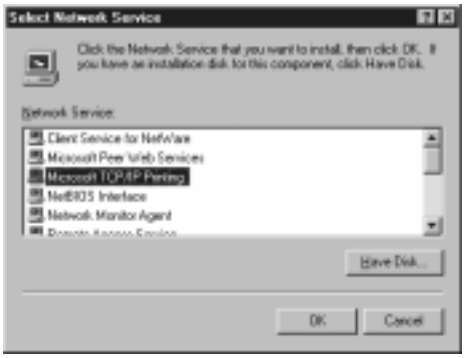
NOTE When you install the printer driver for "TCP/IP via LPR Port" in the print server PC, it is recommended to install it temporarily as "Local Printer" because this allows you to avoid the step of specifying the network path for the SC7700-RISOGRAPH printing station.

1 Open the [Services] tab in the [Network] dialog box.

Double-click on the [Network] icon in the [Control Panel] window. The [Network] dialog box then appears. Select the [Services] tab.

2 **Install the [Microsoft TCP/IP printing] from the WindowsNT CD-ROM disk.**

Click on the [Add] button and select “Microsoft TCP/IP Printing” from the displayed list in the [Select Network Service] dialog box. Then click on the [OK] button. The [WindowsNT4.0 Setup] dialog box will appear. Insert the WindowsNT4.0 CD-ROM disk in the CD-ROM drive and click on the [Continue] button.


Select Network Service
Click the Network Service that you want to install, then click OK. If you have an installation disk for this component, click Have Disk.
Network Service:
Client Service for NetWare
Microsoft Peer Web Services
Microsoft TCP/IP Printing
NetBIOS Interface
Network Monitor Agent
Have Disk...
OK
Cancel

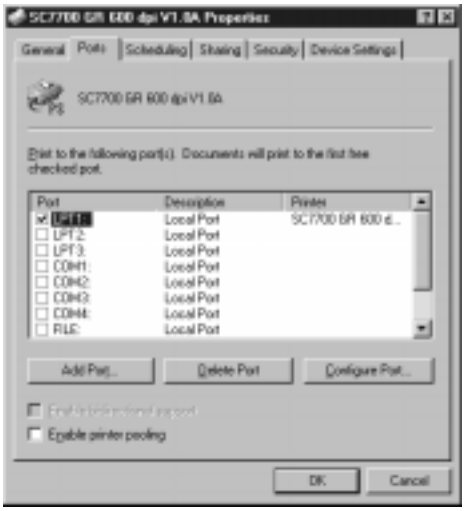
3 **Change the network configuration of the computer.**

Confirm [Microsoft TCP/IP Printing] is displayed in the [Network Services] list box in the [Services] tab and click on the [Close] button. The [Microsoft TCP/IP Properties] dialog box will then appear. Click on the [OK] button and restart Windows. Then remove the CD-ROM disk from the CD-ROM drive and store it in a safe location.

Microsoft TCP/IP Properties
IP Address
DNS
WINS Address
Routing
An IP address can be automatically assigned to this network card by a DHCP server. If your network does not have a DHCP server, ask your network administrator for an address, and then type it in the space below.
Adapter:
Obtain an IP address from a DHCP server
Specify an IP address
IP Address:
Subnet Mask:
Default Gateway:
Advanced...
OK
Cancel

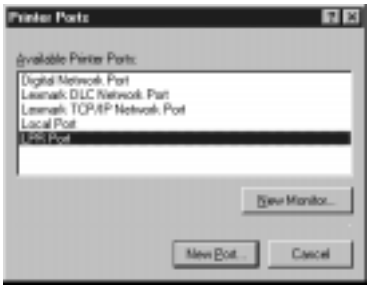
4 Open the [Ports] tab in the [SC7700 Properties] dialog box.

Click on the [SC7700] printer icon with the right-side mouse key in the [Printers] window and select [Properties] from the displayed list. The [SC7700 Properties] dialog box then appears. Select the [Ports] tab.



5 Change the attribute of the selected printer port.

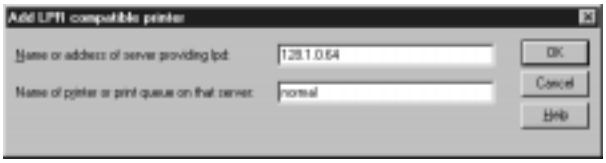
Click on the [Add Port] button. The [Printer Ports] dialog box then appears. Select “LPR Port” from the displayed list and click on the [New Port] button.



6 Specify the IP address of the SC7700-RISOGRAPH printing station and assign the Print queue attribute to it.

Enter the IP address of the SC7700-RISOGRAPH printing station specified in configuring the system hardware. Regarding the Print queue attribute, enter "normal" for the Normal Queue and "hold" for the Hold Queue in lowercase letters in another entry box.

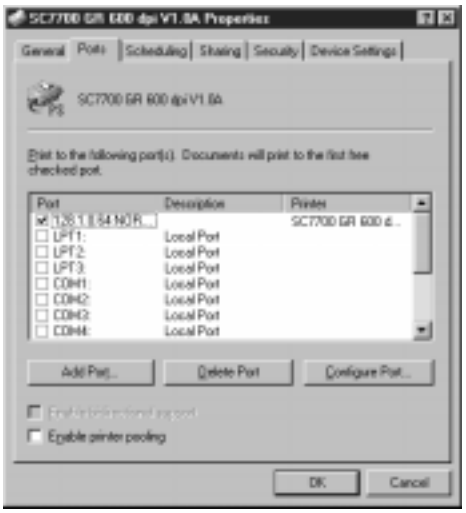
Click on the [OK] button to confirm the given LPR attributes and close the [Printer Ports] dialog box.



7 Connect the SC7700-RISOGRAPH printing station to the LPR port.

Select the LPR port in the list box in the [Ports] tab in the [SC7700 Properties] dialog box.

Click on the [OK] button and close this dialog box.



8 Check if the printer port is configured as specified.

Double-click on the SC7700 printer icon in the [Printers] window. The print queue window will then appear, allowing you to check the printer port attributes.

Installing the ATM (Adobe Type Manager)

You are required to install the ATM (Adobe Type Manager) in the personal computers to display the PS fonts which reside in the SC7700 hard disk on the PC screen. This utility program ensures the same appearance of text images on the PC screen as on printed copies, realizing the true WYSIWYG.

IMPORTANT

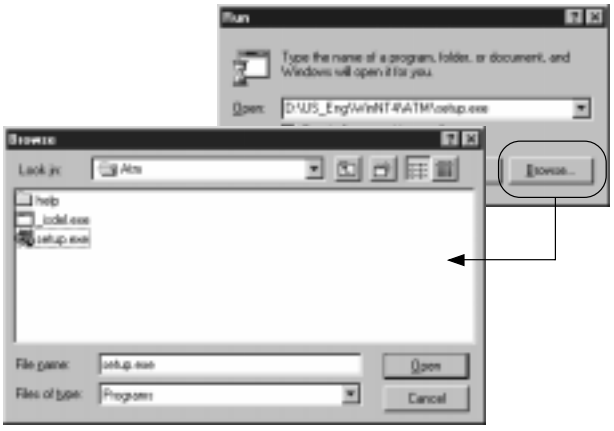
Be sure to read the [Readme] file in the [ATM] folder before installing the ATM in the personal computers because it contains up-to-date information concerning tips and precautions in installation and operation.

NOTE The Administrator's privilege is required to install the ATM in the WindowsNT PCs in the network.

1 **Turn on the personal computer and start Windows.**

2 **Start the ATM installer program.**

Insert the dedicated software CD-ROM disk in the CD-ROM drive and click on [Run] in the [Start] menu. The [Run] dialog box then appears. Specify the CD-ROM drive and select the "setup.exe" file in the [Atm] folder in your preferred language's [WinNT4], referring to the [Browse] box. Confirm that the "setup.exe" file in your preferred language has been selected and click on the [OK] button.



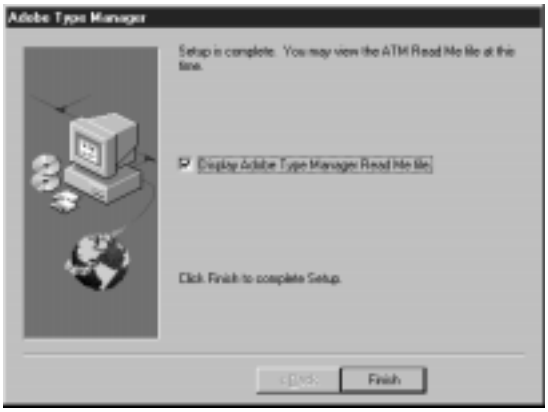
3 Specify the location of the ATM program files.

Check the directory to be assigned to the ATM program files in the dialog box below and click on the [Next] button twice.

Choose Destination Location
ATM program files will be installed to the following directory.
To install to a different directory, click Browse.
Destination Directory
C:\Program Files\Adobe Type Manager
Browse...
< Back
Next >
Cancel

4 Finish the ATM installation.

Click on the [Finish] button in the dialog box below and remove the CD-ROM disk from the CD-ROM drive. Then restart Windows after the ATM installation finishes.


Adobe Type Manager
Setup is complete. You may view the ATM Read Me file at this time.
Display Adobe Type Manager Read Me file
Click Finish to complete Setup.
< Back
Finish

NOTE
- The Times, Helvetica and Courier PS screen font families and the Symbol PS screen font, i.e. a total of 13 PS screen fonts, are installed with the ATM itself.
- Keep the CD-ROM disk in a safe location.

Installing PS Screen Fonts

You can print using the resident fonts in the SC7700 from an application software by specifying the fonts marked with the “Printer Icon”. If the appearance of text images on printed copies is different from that displayed on the PC screen, however, install the PS screen fonts included in the SC7700 software CD-ROM disk provided or a PS font package CD-ROM disk.

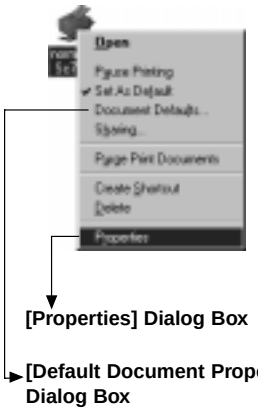
NOTE The ATM is required to be installed before this operation.

Go to page 32 for the stepped descriptions about the installation procedure of PS screen fonts.

Installing TrueType Screen Fonts

If the TrueType screen fonts whose printer fonts reside in the SC7700 are not prepared in your personal computers, you can install them in your computers from the SC7700 software CD-ROM disk provided.

Go to page 34 for the stepped descriptions about the installation procedure of TrueType screen fonts.



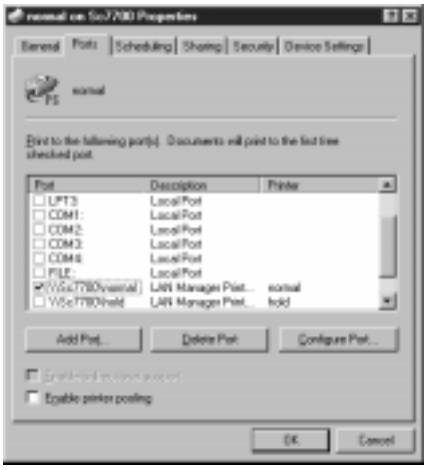
You can customize the printer driver by changing the settings in the [Properties] dialog box, which can be opened by clicking on the [RISO SC7700] icon in the [Printers] folder and selecting [Properties] in the displayed menu.

As for the options of the [Document Properties] dialog box, which are not described in this section, their initial settings (which are selected when opening this dialog box by clicking on the [Properties] button in the [Print] dialog box) can be changed in the [...Default Document Properties] dialog box, which can be opened by clicking on the [RISO SC7700] icon in the [Printers] folder and selecting [Document Defaults] in the displayed menu. If their detailed descriptions are required, refer to the corresponding pages in the User's guide.

[SC7700 Properties] Dialog Box

[Ports] Tab

p.70



a. Port
b. [Add Port] button
c. [Delete Port] button
d. [Configure Port] button
e. Enable bidirectional support
f. Enable printer pooling

[Scheduling] Tab

p.72

a. Available
b. Priority
c. Spooling setting
d. Hold mismatched documents
e. Print spooled documents first
f. Keep documents after they have printed

[Sharing] Tab

NOTE

When the SC7700 is to be shared in the network environment, [Shared] should be selected in this tab.

[Security] Tab

NOTE

You can specify the level of access to the SC7700 in this tab.

[Device Settings] Tab

p.74

a. Form to Tray Assignment
b. Font Substitution Table
c. Available PostScript Memory
d. Output Protocol
e. Send CTRL-D Before (After) Each Job
f. Job Timeout
g. Wait Timeout
h. Minimum (Maximum) Font Size to Download as Outline (Bitmap)
i. Installable Options

[SC7700 Default Document Properties] Dialog Box

[Page Setup] Tab

p.34
in User's guide

NOTE

The initial settings of the respective options can be changed.

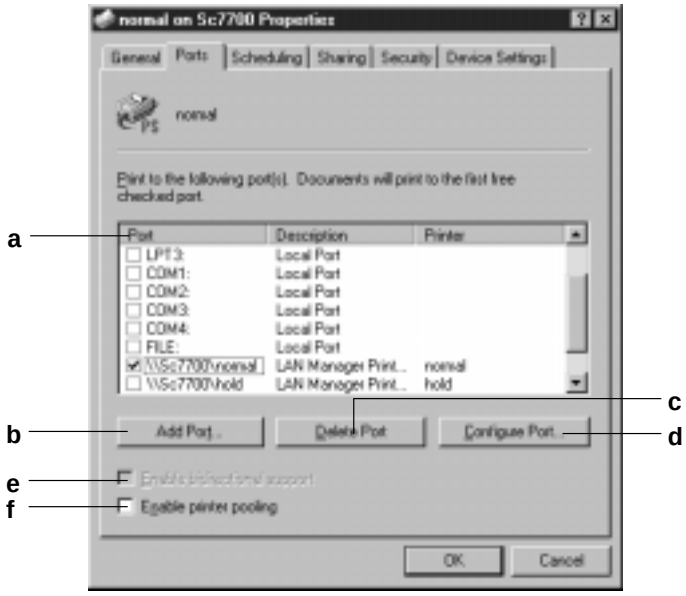
[Advanced] Tab

p.36
in User's guide

NOTE

The initial settings of the respective options can be changed.

[Ports] Tab



a. Port

You can specify the port which is to be used in sending printing data from the respective personal computers when multiple SC7700 units are connected to them through different ports. Select a desired port from the list by checking the box placed before its name.

b. [Add Port] Button

Opens the [Add port] dialog box, in which you can define what port should be added to the list.

c. [Delete Port] Button

Opens the [Delete port] dialog box, in which you can select the port you want to delete from the list.

NOTE As a confirmation message box doesn't appear when clicking on the [OK] button in this dialog box, take care not to delete another port by mistake.

d. [Configure Port] button

Opens the [Configure Port] dialog box when additional options are available for the selected port.

e. Enable bidirectional support

Bidirectional communication will be available for the selected port by activating this option. Select the check box to activate it.

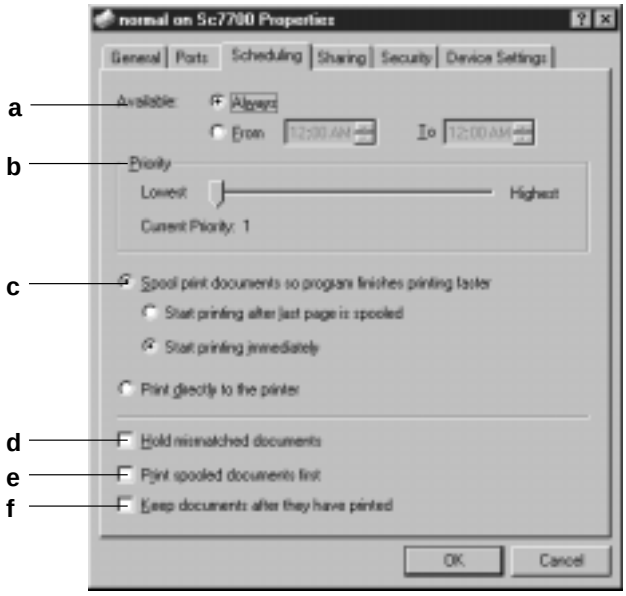
NOTE There are some types of ports for which this option is not available. When it is not available, it is grayed out.

f. Enable printer pooling

Multiple ports can be selected simultaneously as the current printer port in the [Printer port] list above by activating this option.

Select the check box to activate it. If multiple ports are selected, the freest one will receive a print job order.

[Scheduling] Tab



a. Available

You can specify the time during which your RISOGRAPH is available for the respective personal computers.

If you select [Always], your RISOGRAPH will be available around the clock. To specify the period of availability, select [From] and enter the starting and ending times in given boxes.

b. Priority

You can specify the printing priority of the document data to be sent from the respective personal computers. The document data sent from the personal computer to which a higher priority is given here will be printed earlier than those from a lower-priority-labeled one.

c. Spooling setting

You can select whether or not document data should be spooled in the SC7700 hard disk.

If you select [Spool print documents ....], document data will be spooled in the SC7700 hard disk. In this case, you can select how many pages to be spooled before the operation of your RISOGRAPH, all pages ([Start printing after....]) or the first page only ([Start Printing immediately]). It is recommended to select [Spool print documents...] for the SC7700.

If you select [Print directly to the printer], on the other hand, document data will not be spooled in the SC7700 hard disk but directly developed in the SC7700 memory, requiring more time to process a print job on a personal computer.

d. Hold mismatched documents

With this option activated, the SC7700 configuration specified for the current document data will be compared with the actual one while the document data is being spooled in the SC7700 hard disk. If both configurations are not found to be equal, the document data concerned will be held in the spooling queue. Select the check box to activate this option.

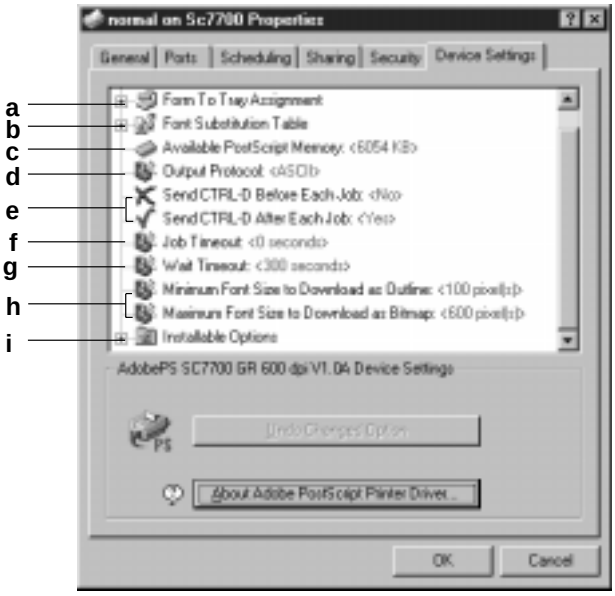
e. Print spooled documents first

By activating this option, the document data waiting to be printed in a spooling queue will be printed first even if a higher-printing-priority-labeled document data is under spooling. When no document data is in the spooling queue, on the other hand, the largest-data-size one that is under spooling will be printed first. Select the check box to activate this option.

f. Keep documents after they have printed

You can keep the document data in the spooling queue of the SC7700 even after it is printed on your RISOGRAPH, by activating this option.
Select the check box to activate it.

[Device Settings] Tab



a. Form to Tray Assignment

Ignore this option as it is not designed for use with the RISOGRAPH.

b. Font Substitution Table

You can specify which TrueType fonts should be replaced with which PS printer fonts stored in the SC7700 for printing, using this option.

Select a TrueType font from the displayed list by highlighting it and select a PS printer font in the list box below. If you don't want to replace the selected TrueType font with a PS3 printer font, select "Download as Soft Font" in the list box.

c. Available PostScript Memory

You can specify the amount of virtual memory available for storing the font data sent to the SC7700 during printing the document. It is recommended to keep it as it is if you have no knowledge about this option.

d. Output Protocol

You can select the format of the data to be output from the respective personal computers to the SC7700 from: ASCII or Binary (or TBCP). It is recommended to keep it as it is if you have no knowledge about this option.

- **ASCII:**

  Sends all data in the ASCII (7 bits) format . Although it takes time to send data in some cases, you can send data from various I/O channels such as serial, parallel, and network ports.

- **Binary :**
- **TBCP (Tagged Binary Control Protocol):**

  Sends all data except special control characters in the binary (8 bits) format. Although data in the binary format can be sent via the parallel or serial communication port only, it can be sent at a higher speed than the ASCII format.

e. Send CTRL-D Before (After) Each Job

You can notify the SC7700 of the end of the current print job data and reset it for the following print job by sending a CTRL-D. It is recommended to keep it as it is if you have no knowledge about this option.

NOTE When the output protocol is set to “Binary”, the CTRL-D cannot be sent to the SC7700.

f. Job Timeout

You can specify the available time for print job. If this time passes, the print job will be automatically canceled. When “0” is entered, there is no time limit for print job.

g. Wait Timeout

You can specify the time allowed for PostScript control data transmission in a print job. If the transmission of a PostScript control data is not finished during this specified time, the print job will be automatically canceled and a PostScript error message will be printed. When “0” is entered, the SC7700 will wait until the transmission of a PostScript control data is finished. If you are trying to print a very complicated document, you may want to increase this value.

h. Minimum (Maximum) Font Size to Download as Outline (Bitmap)

You can specify the size range of the TrueType font (in pixels) within which scalable outline (Type1) format is applied in place of bitmap (Type3, Type32) format in transmitting TrueType font data to the SC7700. If this value is set to “0”, TrueType fonts are always sent in scalable outline format.

NOTE When “Automatic” is specified in the [TrueType Font Download] option in the [Advanced] tab of the [Document Properties] dialog box, The most suitable format in which the TrueType font data is sent to the SC7700 is automatically selected according to your system configuration.

i. Installable Options

The options which can be installed with your RISOGRAPH are displayed with the current status. Make sure that their displayed current status are correct.

NOTE The “Prohibition” sign [ ] indicates a possible conflict in the condition of the status concerned. When you select any of these signed status, the [Conflict] dialog box appears. Follow the displayed instructions.

Memory

You can specify the amount of available memory in the SC7700. The factory-set value is “32-63 MB Total RAM”. If you install additional memory in the SC7700, click on the [▼] bar in the box below and select “64 or more MB Total RAM”.

Cylinder (Drum) Size

Specify the size of the print cylinder (drum) which is installed in your RISOGRAPH.

IMPORTANT

The available standard paper sizes which are given in the [Paper size] list in the [Page Setup] tab vary depending on the status of this option. When you use another RISOGRAPH whose print cylinder (drum) size is different from that of the current one, always change the status of this option to meet it with the new print cylinder (drum) size.

Sorter

Specify the installation status of an optional sorter and stapler. The following three status are given in the list: [Installed], [Installed with Stapler], and [Not Installed].

Print density control

Specify whether your RISOGRAPH is equipped with the print density control feature.

Creating a PS File

You can create a document file in PS format instead of printing it on your RISOGRAPH. To create it, follow the procedures below.

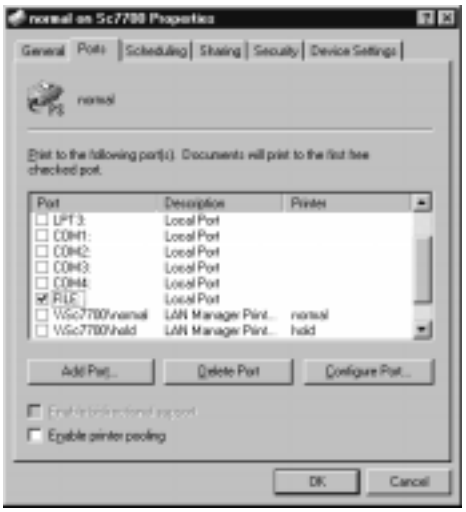
1 Select the corresponding check box in the [Print] dialog box.

Open the [Print] dialog box and select the corresponding check box, such as [Print to file] and [Write PostScript to file], there. Then click on the [OK] button and proceed to Step 3. If the corresponding check box does not exist in the [Print] dialog box, on the other hand, proceed to the next step.

NOTE You can change the PostScript output format in the [Advanced] tab of the [Document Properties] dialog box. (See page 37 in User's Guide)

2 Change the printer driver configuration.

Open the [Properties] dialog box from the [Printers] folder and select "FILE" in the [Printer port] list in the [Ports] tab. Then open the [Print] dialog box and click on the [OK] button.



3 **Specify a file name.**

Specify a name and a destination for the PS file to be created in the displayed dialog box and click on the [OK] or [Save] button.